

## **ADMIN RECORD**

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After completion of the excavation, samples will be collected to aid in determining if soil can be placed back into the trench after processing. Therefore, samples for metals and radionuclides will be collected after excavation, and before processing so that the data can be received early for prompt evaluation. The decision for metals and radionuclide containing soils to be returned to Ryan's pit after processing will be based on average radionuclide content being below the PPRGs listed in *Programmatic Risk Based Preliminary Remediation Goals*, USDOE February 1995 and the average TCLP concentration being below the limits for metals defined in 6 CCR 1007-3, Section 261 24

Data types One composite sample made up of at least 5 subsamples will be collected from each, (up to 10) roll-off containers containing Ryan's pit soils. These subsamples will be collected in a systematic manner, and will be used to determine average metals and radionuclide content within the soil. The samples will be analyzed for radionuclides, and TCLP metals as described in Table 2.3-1 of Appendix B and Table 3.2 of the SAP

- 4) Two questions will be answered relating to treatment of the VOC contaminated soils
  - 1) What is the removal efficiency or percent reduction of the organic contaminants?
  - 2) Are the VOC performance standards being met on the treated soil?

Data types Samples will be collected from every batch of soil, before and after treatment The batch size is expected to be 3-5 cubic yards. The samples will be collected from approximately five subsample grabs as the soil is being loaded into the thermal desorption unit. Samples will be analyzed with a GC. Corresponding samples will be collected from the batch after processing (post processing samples) and analyzed in the same manner. The analyses will allow project personnel to determine removal efficiency of treated soils. In addition, approximately every 10 batches, a confirmatory triplicate sample will be collected and analyzed in an offsite laboratory for VOCs (in addition to a regular and duplicate sample for onsite GC analysis). These samples will allow for an evaluation that performance goals, as stated in the PAM/Permit Modification for the treatment unit, have been attained. After processing, the distribution of residual VOCs is expected to be homogenous thus allowing for the variation in sampling frequency from the metals and radionuclide sampling scheme.

Design Optimization. The optimum number of samples required to meet the decision errors specified for the documentation of residual contamination remaining at the boundaries of the trench excavation are given in Table 2 3-2. The number of samples given probably represents confidences slightly higher those specified due to the statistical assumption of simple random sampling, while the actual sampling strategy consists of one biased toward historical knowledge, and therefore more probability of intersecting relatively higher volumes of contamination. The table also presents design parameters used in the Decision Error Feasibility Trials (DEFT), Version 4.0 (9/94) software by EPA.

The table consists of the most conservative (most protective of human health and environment) scenario with respect to the VOC volatile organic compounds, i.e., the lowest applicable PPRG, which is 5440 mg/kg for trichlorethene (TCE, construction worker in subsoil scenario) Comparisons of average real sample results with PPRGs must be made for each chemical of concern